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L14 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:824468 CAPLUS

DOCUMENT NUMBER: 133:353273

TITLE: Low-carbon steel sheets having high tensile strength and high temperature creep strength for **shadow mask** and color picture tube

INVENTOR(S): Ide, Tsuneyuki; Miyazaki, Takahiko; Shigemasa, Susumu; Tahara, Yasuo

PATENT ASSIGNEE(S): Toyo Kohan Co., Ltd., Japan

SOURCE: PCT Int. Appl., 18 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000070110	A1	<u>20001123</u>	WO 2000-JP3065	<u>20000512</u>

PRIORITY APPLN. INFO.: JP 1999-134904 A 19990514

AB Low-C steel sheets for **shadow mask** and color picture tube contain C 0.0001-0.03, Mn 0.05-0.5, Al 0.001-1.0, and ≥ 1 of O 0.0001-0.1 and N 0.0001-0.02%. The steel sheet exhibits an elongation of $\leq 0.6\%$ when it is held at 450° for 60 min under a load stress of 20 kg/mm².

IT **306298-69-1**

RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(low-carbon steel sheets having high tensile strength and high temperature creep strength for **shadow mask** and color picture tube)

RN 306298-69-1 CAPLUS

CN Iron alloy, base, Fe 90-100, Al 0-1, Co 0-1, Cr 0-1, Cu 0-1, Mo 0-1, Ni 0-1, W 0-1, Mn 0-0.5, B 0-0.3, Hf 0-0.3, Nb 0-0.3, Ta 0-0.3, Ti 0-0.3, V 0-0.3, Zr 0-0.3 (9CI) (CA INDEX NAME)

Component	Component Percent	Component Registry Number
Fe	90 - 100	7439-89-6
Al	0 - 1	7429-90-5
Co	0 - 1	7440-48-4
Cr	0 - 1	7440-47-3
Cu	0 - 1	7440-50-8
Mo	0 - 1	7439-98-7
Ni	0 - 1	7440-02-0
W	0 - 1	7440-33-7
Mn	0 - 0.5	7439-96-5
B	0 - 0.3	7440-42-8
Hf	0 - 0.3	7440-58-6
Nb	0 - 0.3	7440-03-1
Ta	0 - 0.3	7440-25-7
Ti	0 - 0.3	7440-32-6
V	0 - 0.3	7440-62-2
Zr	0 - 0.3	7440-67-7

IC ICM C22C038-00

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CC 55-3 (Ferrous Metals and Alloys)
Section cross-reference(s): 76
ST low carbon steel **shadow mask** color picture tube
IT Television tubes
(color; low-carbon steel sheets having high tensile strength and high
temperature creep strength for **shadow mask** and color
picture tube)
IT **Shadow masks**
Tensile strength
(low-carbon steel sheets having high tensile strength and high temperature
creep strength for **shadow mask** and color picture
tube)
IT 12700-72-0, properties 12790-81-7, properties 306298-67-9, properties
306298-68-0 **306298-69-1** 306304-80-3, properties 306304-81-4,
properties 306304-82-5, properties 306304-83-6, properties
306304-84-7, properties
RL: PRP (Properties); TEM (Technical or engineered material use); USES
(Uses)
(low-carbon steel sheets having high tensile strength and high temperature
creep strength for **shadow mask** and color picture
tube)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT